

ABSTRACT OF THE DISCLOSURE

An optical signal quality monitoring apparatus includes an optical coupler for performing a coupling operation for an input optical signal, a first photodetector (PD) for converting the input optical signal into an electrical signal, a clock decision recovery (CDR) unit for detecting a clock from the electrical signal and recovering data on the basis of the detected clock, and a monitoring unit. The monitoring unit includes a second PD for receiving an output optical signal from the optical coupler and converting it into an electrical signal, an amplifier for amplifying the electrical signal to a predetermined level and inverting the amplified signal, an adder for adding the amplified/inverted signal to a recovered data signal from the CDR unit to obtain a difference there between, a band pass filter for band pass filtering an output signal from the adder, and a radio-frequency power detector for measuring radio-frequency power from an output signal from the band pass filter.